CLAIMS:

What is claimed is:

1 1. A method within an electronic device for
2 communicating within a network of localized electronic
3 devices, wherein said method comprises the steps of:

4 processing incoming and outgoing vibration wave
5 messages in accordance with a network protocol; and

decoding a message-specific semantic of an incoming
vibration wave message and encoding a message-specific
semantic of an outgoing vibration wave message, such that
said device may correspond in accordance with device-
specific and message specific limitations.

2. The method of claim 1, wherein said processing step
further comprises the steps of:

decoding said incoming vibration wave message; and

4 encoding said outgoing vibration wave message in
5 accordance with said network protocol.

1 3. The method of claim 1, further comprising the step of
2 receiving and translating said incoming vibration wave
3 message into a digitized electronic signal.

1 4. The method of claim 3, wherein all network messages
2 include a control message, and wherein said method further
3 comprises the steps of:

1   reading said digitized electronic signal to identify
2   said control message;

3   terminating said digitized electronic signal in
4   response to failing to identify said control message; and

5   processing said digitized electronic signal in
6   response to identifying said control message.

1   5.   The method of claim 2, wherein said encoding step is
2   followed by the step of generating and transmitting an
3   outgoing vibration wave message in accordance with said
4   network protocol.

1   6.   The method of claim 5, wherein said generating and
2   transmitting step further comprises the steps of:

3   translating a digital signal from said protocol
4   interface macro into an analog signal; and

5   converting said translated analog signal into an
6   outgoing vibration wave message.
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1   7.   The method of claim 1, wherein said device includes a
2   base media interface having an vibration signal table
3   which stores a plurality of predetermined vibration wave
4   signals, and wherein method further comprises encoding
5   said outgoing vibration wave message utilizing at least
6   one of said plurality of predetermined vibration wave
7   signals within said vibration signal table.

8. An electronic device comprising:

a base media interface within each of said plurality of devices for processing incoming and outgoing vibration wave messages in accordance with a network protocol; and

a device-specific logic in communication with said base media interface for decoding a message-specific semantic of an incoming vibration wave message and encoding a message-specific semantic of an outgoing vibration wave message, such that each of said plurality of devices may correspond in accordance with device-specific and message specific limitations.

9. The communication interface of claim 8, wherein said base media interface comprises a protocol interface macro for decoding said incoming vibration wave message and encoding said outgoing vibration wave message in accordance with said network protocol.

10. The communication interface of claim 9, wherein said base media interface further comprises a transducer for receiving and translating said incoming vibration wave message into an electronic signal.

11. The communication interface of claim 10, wherein said base media interface further comprises an analog-to-digital converter for digitizing said electronic signal.

12. The communication interface of claim 9, wherein said base media interface further comprises a vibration encoder in communication with said protocol interface macro for

1   generating and transmitting an outgoing vibration wave

2   message in accordance with said network protocol.

1   13.   The communication interface of claim 12, wherein said

2   vibration encoder comprises:

3   a digital-to-analog converter for converting a

4   vibration-encoded digital signal from said protocol

5   interface macro into an vibration-encoded analog signal;

6   and

7   a speaker for translating said vibration-encoded

8   analog signal into an outgoing vibration wave message.

1   14.   The communication interface of claim 8, wherein said

2   base media interface includes a message table which stores

3   a plurality of predetermined vibration wave signals.

1   15.   The communication interface of claim 14, wherein said

2   device-specific logic encodes said outgoing vibration wave

3   message utilizing at least one of said plurality of

4   predetermined vibration wave signals within said vibration

5   signal table.

1   16.   The communication interface of claim 14, wherein said

2   base media interface further comprises computer processing

3   means that provides interactive processing among said

4   protocol interface macro, said vibration signal table, and

5   said device-specific logic.

1   17.   The communication interface of claim 16, further

2   comprising a non-vibration feedback source in

1 communication with said computer processing means for
2 providing external non-vibration feedback control of said
3 outgoing vibration wave message.

18. A method for processing a communication message with another device, said method comprising the steps of:

transducing an incoming vibration signal into an incoming electronic signal;

decoding said incoming electronic signal to determine whether said incoming vibration signal is a network message;

responsive to a determination that said incoming vibration signal is not a network message, terminating said incoming electronic signal;

responsive to a determination that said incoming vibration signal is an incoming network message, determining whether said incoming network message has been previously received by said host device;

responsive to a determination that said incoming vibration signal has been previously received by said host device, terminating said incoming network message; and

responsive to a determination that said incoming vibration signal has not been previously received by said host device, transmitting said incoming network message as an outgoing vibration message.

19. The method of claim 18, further comprising the steps of decoding a semantic of said incoming network message into a device-specific command in accordance with a

1   device-specific decoder and device-specific instructions
2   stored within said device-specific logic module.